Iowa Alternate Assessment

Performance Level Descriptors & Cut Scores

2009 - 2010

Science

Representation: recall and apply Inquiry	Advanced Abstract: analyze, problem solve, synthesis Inquiry Ask a question about objects, organisms, and events in the environment Plan and conduct a simple investigation Employ simple equipment and tools to gather data and extend the senses Use data to construct a reasonable explanation Communicate investigations and
apply Inquiry Ask a question about objects, organisms, and events in the environment Plan and conduct a simple investigation Employ simple equipment and tools to gather data and extend the senses Use data to construct a reasonable explanation Communicate investigations and	synthesis Inquiry Ask a question about objects, organisms, and events in the environment Plan and conduct a simple investigation Employ simple equipment and tools to gather data and extend the senses Use data to construct a reasonable explanation Communicate
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	explanations
 Life Science Structures of living things Life cycles Environmental interaction and adaptation 	 Life Science Structures of living things Life cycles Environmental interaction and adaptation
 Earth Science Earth's composition and structure Changes in and around Earth Solar system 	 Earth Science Earth's composition and structure Changes in and around Earth Solar system
Physical Science • Mechanics, contact forces, and motion	 Physical Science Mechanics, contact forces, and motion Types of energy Properties and
	structure Changes in and around Earth Solar system Physical Science Mechanics, contact

Basic	scriptors and Cut Scores Proficient	Advanced
Concrete: respond to, reproduce	Representation: recall and Apply	Abstract: analyze, problem solve, synthesis
 Identify questions that can be answered through scientific investigations Design and conduct a scientific investigation Use appropriate tools and techniques to gather, analyze and interpret data Develop descriptions, explanations, predictions and models using evidence Recognize and analyze alternative explanations and predictions 	 Inquiry Identify questions that can be answered through scientific investigations Design and conduct a scientific investigation Use appropriate tools and techniques to gather, analyze and interpret data Develop descriptions, explanations, predications and models using evidence Recognize and analyze alternative explanations and predictions 	 Inquiry Identify questions that can be answered through scientific investigations Design and conduct a scientific investigation Use appropriate tools and techniques to gather, analyze and interpret data Develop descriptions, explanations, predictions and models using evidence Recognize and analyze alternative explanations and predictions
 Life Science Structures and function of living things Characteristics of living systems Environmental interaction, diversity, change, and adaptation 	 Life Science Structures and function of living things Characteristics of living systems Environmental interaction, diversity, change, and adaptation 	 Life Science Structures and function of living things Characteristics of living systems Environmental interactions, diversity, change, and adaptation
 Earth Science Earth's composition and structure Changes in and around Earth Mechanics of the solar system 	 Earth Science Earth's composition and structure Changes in and around Earth Mechanics of the solar system 	 Earth Science Earth's composition and structure Changes in and around Earth Mechanics of the solar system
 Physical Science Mechanics, contact forces, and motion Energy transfer Properties and characteristics of matter 	 Physical Science Mechanics, contact forces, and motion Energy transfer Properties and characteristics of matter 	 Physical Science Mechanics, contact forces, and motion Energy transfer Properties and characteristics of matter
0-40	41-69	70+

Grade 11 – Science Performance D Basic	Proficient Proficient	Advanced
Concrete: respond to, reproduce	Representation: recall and apply	Abstract: analyze, problem solve synthesis
 Identify questions and concepts that guide scientific investigations Design and conduct experiment (choosing proper equipment, safety equipment, use information from other sources outside the investigation) Use technology and mathematics to improve investigations and communication (interpreting graphical information) Formulate and revise scientific explanations and models using logic and evidence Communicate and defend a scientific argument 	 Inquiry Identify questions and concepts that guide scientific investigations Design and conduct experiment (choosing proper equipment, safety equipment, use information from other sources outside the investigation) Use technology and mathematics to improve investigations and communication (interpreting graphical information) Formulate and revise scientific explanations and models using logic and evidence Communicate and defend a scientific argument 	Inquiry Identify questions and concepts that guide scientific investigations Design and conduct experiment (choosing proper equipment, safet equipment, use information from other sources outside the investigation) Use technology and mathematics to improve investigations and communication (interpreting graphical information) Formulate and revise scientific explanations and models using logic and evidence Communicate and defend a scientific argument
 Life Science Adequacy and accuracy of information about life science Predictions from data from life science Scientific investigations in life science 	Adequacy and accuracy of information about life science Predictions from data from life science Scientific investigations in life science	 Life Science Adequacy and accuracy of information about life science Predictions from data from life science Scientific investigations in life science
 Earth Science Adequacy and accuracy of information about Earth/space science Predictions from data from Earth/space science Scientific investigations in Earth/space science 	 Earth Science Adequacy and accuracy of information about Earth/space science Predictions from data from Earth/space science Scientific investigations in Earth/space science 	 Earth Science Adequacy and accuracy of information about Earth/space science Predictions from data from Earth/space science Scientific investigations in Earth/space science
 Physical Science Adequacy and accuracy of information about physical science Predictions from data from physical science Scientific investigations in physical science 	 Adequacy and accuracy of information about physical science Predictions from data from physical science Scientific investigations in physical science 	 Physical Science Adequacy and accuracy of information about physical science Predictions from data from physical science Scientific investigations in physical science
0-50	51-64	80+
0.50	1 21 01	1 301